

## PATENT ABSTRACTS OF JAPAN

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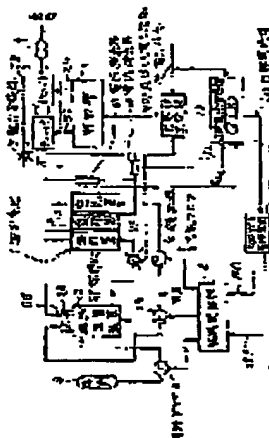
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## (54) OUTPUT CONTROL DEVICE FOR FUEL CELL POWER GENERATING SYSTEM

## (57)Abstract:

**PURPOSE:** To hold the proper utilization factor of reaction gas and stabilize the power generation of a fuel cell without impairing load responsiveness by collating the product of the current and voltage on a characteristic curve and a power command value to determine the target current value, and controlling the feed quantities of fuel gas and reaction air based on the target current value.

**CONSTITUTION:** The feed quantity of reaction gas to a fuel cell 1 is controlled by a target current estimation section 11 which receives the detected signals of detectors 14, 15 of the output current  $I_f$  and output voltage  $V_f$  of the fuel cell 1 and outputs the target current estimated value  $I_{fb}$  corresponding to a power command 20 and a reaction gas quantity calculation section 12 which receives the command value of the target current  $I_{fb}$ , calculates the reaction gas quantity corresponding to it, and outputs command signals 14F, 15A to an auxiliary machine controller. A response correcting circuit 13 delays the rising time and trailing time of the square-wave power command 20 to feed it to a controller 8, and the response speed of a power converter 7 is delayed to the response speed of a fuel reformer to control the output.



## LEGAL STATUS

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